



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: LAYZELL, D.B., et al.  
Serial Number: 10/040,469  
Filing Date: January 9, 2002  
Title: Methods for Enhancing Plant Growth Using Hydrogen Gas  
Art Unit: 3643  
Examiner: Gellner, J.L.  
Agent Ref. No. 1998-016-08US

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Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir,

**AMENDMENT and RESPONSE TO OFFICE ACTION**

This amendment has been prepared under the newly revised format set forth by the U.S.P.T.O. in the Office of Patent Legal Administration Pre-OG Notice of January 31, 2003. It is Applicants' understanding that by following the provisions of the new format, the provisions under 37 C.F.R. § 1.121(a), (b), (c) and (d) are waived for amendments to the claims, specification and drawings.

This is in response to the Office Action dated January 22, 2003. A Petition for Extension of Time of one month, with fee authorization, is being filed simultaneously herewith. Applicants wish to amend the application as follows:

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## IN THE DISCLOSURE:

Please amend the table at page 11, lines 11 to 17, as follows:

**Table 1. Dry weight comparisons of barley (per plant).**

Soil		Shoot			Root		
Treatment		Mean±SE (gDW)	p value of t-test	Growth Enhance	Mean±SE (gDW)	p value of t-test	Growth Enhance
Lawn	Air	0.98±0.02	* 0.000066		0.68±0.03		
	H <sub>2</sub>	1.56±0.02		58.98%	0.91±0.06	**0.04996	33.99%
Field	Air	1.07±0.05	* 0.01533		0.88±0.02		
	H <sub>2</sub>	1.47±0.07		36.65%	0.95±0.08	0.4925	7.71%
Garden	Air	1.55±0.02	* 0.000341		1.55±0.03		
	H <sub>2</sub>	2.02±0.03	* 0.000341	29.83%	1.60±0.03	0.3085	3.23%

\* Significant different at 99%. \*\* Significant different at 95%.

**IN THE DRAWINGS:**

Please replace Figures 1 and 2 currently on file with the amended Figures 1 and 2 submitted herewith.